Refine Search

Search Results -

Term	Documents
COMPILER$1	0
COMPILER	29334
COMPILERA	1
COMPILERE	1
COMPILERS	8134
COMPILER1	1
COMPILER/	1
COMPILER:	1
COMPILER]	6
(15 AND COMPILER$1).PGPB,USPT,EPAB,JPAB,DWPI,TDBD.	0
(COMPILER$1 AND L15).PGPB,USPT,EPAB,JPAB,DWPI,TDBD.	0

Database:

US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search: L16

Refine Search

Recall Text | Clear | Interrupt

Search History

DATE: Thursday, November 02, 2006 **Purge Queries** Printable Copy Create Case

Set Name side by side	Query	Hit Count	Set Name result set
DB=PGPB,USPT,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR			
L16	compiler$1 and L15	0	L16
L15	information$1 and L13	1	L15

L14	subset$1 and L13	0	L14
L13	non-object-oriented and L5	1	L13
L12	method$1 and L9	0	L12
L11	method$1 and Ll9	70	L11
L10	device$1 and L9	0	L10
L9	non-object and l1	1	L9
L8	device$1 and L2	0	L8
L7	network near5 device and L2	0	L7
L6	non-object and L5	0	L6
L5	method$1 and L4	1	L5
L4	device$1 and L1	1	L4
L3	receiv$5 near3 non-object and L1	0	L3
L2	non-object and L1	1	L2
L1	6219673.pn.	2	L1

END OF SEARCH HISTORY

STIC Search Report
EIC 2100

USPTO

STIC Database Tracking Number: 206390

TO: Yves Dalencourt **Location: RND 4A89** **Art Unit: 2157** **Thursday, November 02, 2006** **Case Serial Number: 09632294**	**From: Byron T. Mims** **Location: EIC 2100** **RND-4B19** **Phone: 272-3528** **byron.mims@uspto.gov**

Search Notes

Yves

Enclosed are art findings that may be of interest. Let me know if there is anything in particular that you would like for me to pursue further.

Byron

sira
Search and Information Resources Administration

```
Set     Items   Description
S1     248183   DATABASE? OR DATABANK? OR DATA()(BASE? ? OR BANK? ? OR FIL-
             E? ? OR REPOSITOR? OR WAREHOUSE?) OR DB OR RDB OR OODB OR ODBC
              OR DBMS
S2       1172   MIB OR MANAG?()INFORMATION?()(BLOCK? OR BASE? ? OR NETWORK-
             ?)
S3         39   S1:S2(5N)("NOT" OR NO OR WITHOUT OR NON)(2N)OBJECT?()ORIEN-
             T?
S4          0   S3(7N)(FRACTION? OR PART??? OR PORTION? OR SUBSET? OR FRAG-
             MENT? OR PIECE? OR SEGMENT? OR DETAIL?)
S5          0   S3(7N)(DELIVER? OR SEND??? OR SENT OR UPLOAD? OR DISTRIBUT?
              OR TRANSFER? OR TRANSMI? OR BEAM???)
S6         15   S3(7N)(RECEIV? OR ACCEPT? OR ACQUIR? OR OBTAIN? OR DOWNLOA-
             D? OR PULL???()DOWN?? OR PROCUR??? OR GET? ? OR FETCH??? OR R-
             ETRIEV? OR ACCESS?)
S7          8   S5:S6(7N)(OBJECT?()ORIENT?)(5N)(INTERFACE? ? OR APP OR APPS
              OR APPLICATION? OR APPARAT? OR DEVICE? OR GUI OR GUIS)
File 350:Derwent WPIX 1963-2006/UD=200670
         (c) 2006 The Thomson Corporation
File 347:JAPIO Dec 1976-2006/Jan(Updated 061009)
         (c) 2006 JPO & JAPIO
```

7/69,K/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX

0010856009 - Drawing available
WPI ACC NO: 2001-474812/
Related WPI Acc No: 1998-520716
XRPX Acc No: N2001-351406
Data structure for use in object-oriented computer systems, has generic persistent datastore defined by generic database description, associated with non-object oriented datastore
Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)
Inventor: BLACKMAN K R; HOWE J L
Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 6219673	B1	20010417	US 1996738105	A	19961025	200151 B
			US 199874247	A	19980507	

Priority Applications (no., kind, date): US 1996738105 A 19961025; US 199874247 A 19980507

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 6219673	B1	EN	14	7	Continuation of application US 1996738105
					Continuation of patent US 5809509

Alerting Abstract US B1

NOVELTY - A generic persistent datastore, is defined by a generic **database** description, associated with the **non - object - oriented** datastore (114) and is **accessed** by **application** programs. Persistent datastore stores datastore persistent objects defined by persistent object class. The objects encapsulates data from the non-object-oriented datastore, and are materialized in the computer for access by the programs.

DESCRIPTION - A bridge program interfaces the application programs to the non-object-oriented datastore and translates common elements between the objects and the data stored in the database. The data encapsulated by the objects is concurrently shared between object oriented and non-object-oriented applications.

USE - For use in object-oriented computer systems, for accessing non-object oriented datastores.

ADVANTAGE - The need for writing non-object-oriented code to access the non-object-oriented datastore is minimized by generating object classes by a datastore class definition tool. Provides a bridge that interfaces between an application program and a non-object database management system, to provide persistent storage for objects manipulated by application program.

DESCRIPTION OF DRAWINGS - The figure shows the block diagram illustrating
the operating of the class definer tool.
114Non-object-oriented datastore

Title Terms/Index Terms/Additional Words: DATA; STRUCTURE; OBJECT; ORIENT;
COMPUTER; SYSTEM; PERSISTENT; DEFINE; DATABASE; DESCRIBE; ASSOCIATE; NON

Class Codes
International Classification (Main): G06F-017/30

File Segment: EPI;
DWPI Class: T01
Manual Codes (EPI/S-X): T01-F07; T01-J05B; T01-J05B2B; T01-J14

...NOVELTY - A generic persistent datastore, is defined by a generic **database** description, associated with the **non - object - oriented** datastore (114) and is **accessed** by **application** programs. Persistent datastore stores datastore persistent objects defined by persistent object
class. The objects encapsulates...

7/69,K/2 (Item 2 from file: 350)

0010313549 - Drawing available
WPI ACC NO: 2000-627666/200060
Related WPI Acc No: 1998-480751
XRPX Acc No: N2000-465011

Data retrieval apparatus for non-object oriented datastore, retrieves data from datastore on request from application program, as objects accessible by application program

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)
Inventor: BLACKMAN K R; HOWE J L

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 6081808	A	20000627	US 1996736762	A	19961025	200060 B
			US 199874928	A	19980506	

Priority Applications (no., kind, date): US 1996736762 A 19961025; US 199874928 A 19980506

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 6081808	A	EN	13	6	Continuation of application US 1996736762
					Continuation of patent US 5799313

Alerting Abstract US A

NOVELTY - A bridge program (110) interfaces between an application program (104) and non-object oriented datastore (114). Data retrieved from the datastore are materialized as objects that can be accessed by application program, in response to query request from application program.

DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

1.computerized method of data retrieval;

2.program product

USE - For object oriented access to non-object oriented datastore, using client-server configurations, database management system.

ADVANTAGE - The data retrieved from the datastore is encapsulated or wrapped.

DESCRIPTION OF DRAWINGS - The figure shows the block diagram illustrating the operation of the block.

104 Application program
110 Bridge program
114 Non-object oriented datastore

Title Terms/Index Terms/Additional Words: DATA; RETRIEVAL; APPARATUS; NON;

OBJECT; ORIENT; REQUEST; APPLY; PROGRAM; ACCESS

Class Codes
International Classification (Main): G06F-017/30

File Segment: EPI;
DWPI Class: T01
Manual Codes (EPI/S-X): T01-F07; T01-J05B3; T01-J05B4P; T01-S03

Original Publication Data by Authority

Original Abstracts:
...computerized system in accordance with the principles of the present invention includes a "bridge" that **interfaces** between an **application** program and a **non - object - oriented database** management system to materialize data **retrieved** from the **non - object - oriented database**
management system as objects that can be manipulated by the **application**
program. The bridge includes a "collection of object collections" for modeling hierarchical structures, a datastore...

7/69,K/3 (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX

0010313499 - Drawing available
WPI ACC NO: 2000-627616/
Related WPI Acc No: 1998-413612
XRPX Acc No: N2000-464961
Data retrieval for non-object oriented datastore, involves encapsulating data retrieved incrementally from non-objected oriented database in one or more objects of datastore collection with limited number of objects
Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)
Inventor: BLACKMAN K R; HOWE J L
Patent Family (1 patents, 1 countries)

Patent			Application			
Number	Kind	Date	Number	Kind	Date	Update
US 6078927	A	20000620	US 1996738294	A	19961025	200060 B
			US 199874929	A	19980506	

Priority Applications (no., kind, date): US 1996738294 A 19961025; US 199874929 A 19980506

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 6078927	A	EN	15	7	Continuation of application US 1996738294
					Continuation of patent US 5781907

Alerting Abstract US A

NOVELTY - Data are incrementally retrieved from a non-object-oriented datastore (114) into a computer. The retrieved data are encapsulated in one or more objects of a datastore collection (300) which has specified number of objects. Some objects are deleted from the datastore collection when additional data is requested.

DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

1.computerized apparatus for retrieving data from non-object oriented datastore;

2.program for data retrieval

USE - For information management system (IMS) TM database management system for accessing non-object oriented datastore.

ADVANTAGE - Since the data stored in non-objected oriented database are encapsulated in objects, the object oriented application program can manipulate that data efficiently.

DESCRIPTION OF DRAWINGS - The figure shows the block diagram of the database collection of bridge which interfaces object oriented program and then non-object oriented database.

114 Non-object-oriented datastore

300 Datastore collection

Title Terms/Index Terms/Additional Words: DATA; RETRIEVAL; NON; OBJECT; ORIENT; ENCAPSULATE; INCREMENT; DATABASE; ONE; MORE; COLLECT; LIMIT; NUMBER

Class Codes
International Classification (Main): G06F-017/30

File Segment: EPI;
DWPI Class: T01
Manual Codes (EPI/S-X): T01-J05B3; T01-J05B4C

Original Publication Data by Authority

Original Abstracts:
...computerized system in accordance with the principles of the present invention includes a "bridge" that **interfaces** between an **application** program and a **non - object - oriented database** management system to materialize data **retrieved** from the **non - object - oriented database**
management system as objects that can be manipulated by the **application**
program. The bridge includes a datastore collection comprised of a specified number of datastore persistent...

7/69,K/4 (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX

0008929597 - Drawing available
WPI ACC NO: 1998-480751/199841
Related WPI Acc No: 2000-627666
XRPX Acc No: N1998-375143
Computerised apparatus for accessing non-object oriented data using object oriented techniques - retrieves data from non-object oriented database by making bridge program to be executed by computer
Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)
Inventor: BLACKMAN K R; HOWE J L
Patent Family (1 patents, 1 countries)

Patent			Application			
Number	Kind	Date	Number	Kind	Date	Update
US 5799313	A	19980825	US 1996736762	A	19961025	199841 B

Priority Applications (no., kind, date): US 1996736762 A 19961025

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 5799313	A	EN	13	6	

Alerting Abstract US A
The apparatus has an external non-object oriented database stored in a data storage device of a computer. A bridge program is executed by the computer to retrieve data from the database.
The retrieved data is encapsulated in one or more database persistent objects. These objects are materialized as members of database collector (300) accessible by application program (104).
ADVANTAGE - Improves bridging technique between non-object oriented database and object oriented application program.

Title Terms/Index Terms/Additional Words: COMPUTER; APPARATUS; ACCESS; NON; OBJECT; ORIENT; DATA; TECHNIQUE; RETRIEVAL; DATABASE; BRIDGE; PROGRAM; EXECUTE

Class Codes
International Classification (Main): G06F-017/30

File Segment: EPI;
DWPI Class: T01
Manual Codes (EPI/S-X): T01-J05B4C; T01-J05B4P

Original Publication Data by Authority

Original Abstracts:
...computerized system in accordance with the principles of the present invention includes a "bridge" that **interfaces** between an **application**

program and a **non - object - oriented database** management system to materialize data **retrieved** from the **non - object - oriented database** management system as objects that can be manipulated by the **application** program. The bridge includes a "collection of object collections" for modeling hierarchical structures, a datastore...

7/69,K/5 (Item 5 from file: 350)
DIALOG(R)File 350:Derwent WPIX

0008866115 - Drawing available
WPI ACC NO: 1998-413612/
Related WPI Acc No: 2000-627616
XRPX Acc No: N1998-321978
Computer based accessing method for non-object oriented database - involves
storing data retrieved from data storage device into computer memory as specified number of database objects
Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)
Inventor: BLACKMAN K R; HOWE J L
Patent Family (1 patents, 1 countries)

Patent			Application			
Number	Kind	Date	Number	Kind	Date	Update
US 5781907	A	19980714	US 1996738294	A	19961025	199835 B

Priority Applications (no., kind, date): US 1996738294 A 19961025

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 5781907	A	EN	14	7	

Alerting Abstract US A
The method involves **retrieving** the data from an external **non - object oriented database** (114), of a data storage **device** (116). The retrieved data is written into the memory of the computer to which the data storage device is attached.
The retrieved data is stored as several database objects which constitute a database collection. The number of database objects is limited to a specified number.
ADVANTAGE - Avoids restriction to client server configuration. Enables application to main frames, microcomputers or personal computers also.

Title Terms/Index Terms/Additional Words: COMPUTER; BASED; ACCESS; METHOD; NON; OBJECT; ORIENT; DATABASE; STORAGE; DATA; RETRIEVAL; DEVICE; MEMORY; SPECIFIED; NUMBER

Class Codes
International Classification (Main): G06F-017/30

File Segment: EPI;
DWPI Class: T01
Manual Codes (EPI/S-X): T01-J05B3; T01-J05B4B; T01-J05B4M

Alerting Abstract ...The method involves **retrieving** the data from an external **non - object oriented database** (114), of a data storage

device (116). The retrieved data is written into the memory of the computer to which the...

Original Publication Data by Authority

Original Abstracts:

...computerized system in accordance with the principles of the present invention includes a "bridge" that **interfaces** between an **application** program and a **non - object - oriented database** management system to materialize data **retrieved** from the **non - object - oriented database** management system as objects that can be manipulated by the **application** program. The bridge includes a datastore collection comprised of a specified number of datastore persistent...

7/69,K/6 (Item 6 from file: 350)
DIALOG(R)File 350:Derwent WPIX

0007759287 - Drawing available
WPI ACC NO: 1996-384080/199638
Efficient retrieval method of data spread throughout large object oriented databases - involves providing tracking agent instrumentation for obtaining data and designating tracking agent information within object oriented database to return request to service layers
Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)
Inventor: HUGHES E T; KNUDSON R L; MARLIN J W; RUEHLE T M; STUART A F
Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
US 5546577	A	19960813	US 1994334592	A	19941104	199638	B

Priority Applications (no., kind, date): US 1994334592 A 19941104

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 5546577	A	EN	18	12	

Alerting Abstract US A
The method involves providing a management interface within the Desktop Management Interface (DMI) to receive a request for data from a management application. A service layer is provided within the DMI to issue a DMI function call to address an object oriented database with a request. Data needed for a particular request is obtained with tracking agent instrumentation.
A designation of the tracking agent information is provided in the object oriented database so that the request is returned to the service layer for passing the particular request to the tracking agent instrumentation. A component interface passes the request to the tracking agent as though it were component instrumentation and receives data developed by the database instrumentation. The management interface passes the developed data to the management application.
USE/ADVANTAGE - Selection of underlying database manager varies from implementation to implementation and is transparent to management application requesting access.

Title Terms/Index Terms/Additional Words: EFFICIENCY; RETRIEVAL; METHOD; DATA; SPREAD; OBJECT; ORIENT; TRACK; AGENT; INSTRUMENT; OBTAIN; DESIGNATED; INFORMATION; DATABASE; RETURN; REQUEST; SERVICE; LAYER

Class Codes
International Classification (Main): G06F-017/00
(Additional/Secondary): G06F-019/00

File Segment: EPI;
DWPI Class: T01
Manual Codes (EPI/S-X): T01-F07; T01-J05B3; T01-J05B4

Original Publication Data by Authority

Claims:
...said DMI for managing hardware and software components, said DMI providing for component instrumentation to **obtain** data from components
without searching said **object - oriented database** , said method comprising the steps of: /br providing a management **interface** within said
DMI to receive a request for data from said management application; /br providing a...

7/69,K/7 (Item 7 from file: 350)
DIALOG(R)File 350:Derwent WPIX

0007584804 - Drawing available
WPI ACC NO: 1996-201043/199620
XRPX Acc No: N1996-168660
Non-object structured data integrating appts for database management system
- provides transparent interface to external data stores which accesses data via ODBMS and manipulates data in foreign data stores which include
external data that is converted into objects
Patent Assignee: ONTOS INC (ONTO-N)
Inventor: HARRIS C S; MARTEL P A
Patent Family (4 patents, 18 countries)

Patent			Application				
Number	Kind	Date	Number	Kind	Date	Update	
WO 1996010232	A1	19960404	WO 1995US2549	A	19950302	199620	B
US 5542078	A	19960730	US 1994315394	A	19940929	199636	E
EP 783738	A1	19970716	EP 1995912665	A	19950302	199733	E
			WO 1995US2549	A	19950302		
JP 11502330	W	19990223	WO 1995US2549	A	19950302	199918	E
			JP 1996511704	A	19950302		

Priority Applications (no., kind, date): US 1994315394 A 19940929
Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
WO 1996010232	A1	EN	116	10	
National Designated States,Original: JP					
Regional Designated States,Original: AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE					
US 5542078	A	EN	39	10	
EP 783738	A1	EN			PCT Application WO 1995US2549 Based on OPI patent WO 1996010232
Regional Designated States,Original: DE FR GB					
JP 11502330	W	JA	122		PCT Application WO 1995US2549 Based on OPI patent WO 1996010232

Alerting Abstract WO A1
The appts. includes a storage manager responding to an ODBMS application interface and an external data store (22) interface. The storage manager has an interface with several constructs including objects, references, indices, extensions and transactions, and facilitates the handling of the constructs to communicate with the ODBMS (20) interface to transfer structures.

An integral mapper receives some constructs and maps them to second constructs to transform the data structures to non-object structured data to store in the external data store, and to transform non-object structured data to object data structures for use by an object application. A

second
interface between the mapper and the data store has several second interface constructs and handles them to communicate the transfer of the
non-object structured data between the storage manager and the external data store.

ADVANTAGE - **Accesses** and effectively integrates **non = object oriented** data stores with object **applications** . Preserves existing **database** and file system while permitting shift to **object oriented applications** .

Title Terms/Index Terms/Additional Words: STRUCTURE; DATA; INTEGRATE; APPARATUS; DATABASE; MANAGEMENT; SYSTEM; TRANSPARENT; INTERFACE; EXTERNAL
; STORAGE; ACCESS; MANIPULATE; FOREIGN; CONVERT; OBJECT; OBJECT; DATABASE
; MANAGEMENT; SYSTEM

Class Codes
International Classification (Main): G06F-012/00, G06F-017/30

File Segment: EPI;
DWPI Class: T01
Manual Codes (EPI/S-X): T01-J05B; T01-J20A

Alerting Abstract ...ADVANTAGE - **Accesses** and effectively integrates
non = object oriented data stores with object **applications** . Preserves
existing **database** and file system while permitting shift to **object oriented applications** .

7/69,K/8 (Item 8 from file: 350)

0006071837 - Drawing available
WPI ACC NO: 1992-310143/
XRPX Acc No: N1992-237397

Relational database data access system - has interface communicating with requestor object in object-oriented environment and relational database outside object-oriented environment

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)
Inventor: BAKER R B; CAVENDISH C J; SITZE K L

Patent Family (4 patents, 4 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
EP 504085	A1	19920916	EP 1992480017	A	19920211	199238 B
US 5212787	A	19930518	US 1991668001	A	19910312	199321 E
EP 504085	B1	19990623	EP 1992480017	A	19920211	199929 E
DE 69229453	E	19990729	DE 69229453	A	19920211	199936 E
			EP 1992480017	A	19920211	

Priority Applications (no., kind, date): US 1991668001 A 19910312

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
EP 504085	A1	EN	9	3	
Regional Designated States,Original: DE FR GB					
US 5212787	A	EN	8	3	
EP 504085	B1	EN			
Regional Designated States,Original: DE FR GB					
DE 69229453	E	DE			Application EP 1992480017 Based on OPI patent EP 504085

Alerting Abstract EP A1

The data processing system includes a requestor object in the object-oriented environment which sends a data access message. An interface communicates with the requestor object in the object-oriented environment and the relational database outside of the object-oriented environment.

The interface has a mechanism for receiving the data access message from the requestor object, accessing the relational database, and returning a result to the requestor object.

ADVANTAGE - Accesses data in relational database without user having to exit object-oriented environment.

Equivalent Alerting Abstract US A

The method is for accessing a relational database outside of an object oriented environment without exiting the object-oriented environment. A requestor object located in the object oriented environment sends a data

access message requesting data located in a relational database outside of
the object oriented environment.
  The message is sent to an interface which creates a data object containing instance variables to hold results from the data access request.
The interface executes a data access routine and the results are placed into the data object with the results being sent to the requestor object by
sending the requestor object a pointer to the data object.
  ADVANTAGE - Provides improved data access system.

Title Terms/Index Terms/Additional Words: RELATED; DATABASE; DATA; ACCESS;
  SYSTEM; INTERFACE; COMMUNICATE; OBJECT; ORIENT; ENVIRONMENT

Class Codes
International Classification (Main): G06F-015/40, G06F-017/30

File Segment: EPI;
DWPI Class: T01
Manual Codes (EPI/S-X): T01-F07; T01-H07C; T01-J05B4

Original Titles:
...Method and **apparatus** for accessing a relational database without exiting an **object** - **oriented** environment...

...Method and apparatus for **accessing** a relational **database** **without**
exiting an **object** - **oriented** environment...

...Method and apparatus for **accessing** a relational **database** **without**
exiting an **object** - **oriented** environment